

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): An antenna comprising:
 - a thin plate-like base member ~~(3)~~ made of dielectric material;
 - a ground conductor ~~(5)~~ formed of a thin-film shaped and rectangular conductor and disposed on the base member ~~(3)~~;
 - a first antenna element ~~(7)~~ formed of a thin-film shaped and L-shaped conductor, having one end connected to one end of the ground conductor ~~(5)~~ and disposed on the base member ~~(3)~~;
 - ~~and~~ a second antenna element ~~(9)~~ formed of a thin-film shaped and rectangular conductor and disposed on the base member ~~(3)~~ without being directly connected to the ground conductor ~~(5)~~ and the first antenna element ~~(7)~~;
 - a first connecting portion formed on the first antenna element in order to electrically connect the first antenna element to a first conductor of a cable;
 - a contact portion formed on the second antenna element in order to electrically connect the second antenna element to a second conductor of the cable via dielectric member; and
 - a second connecting portion formed on the ground conductor in order to electrically connect the ground conductor to the second conductor of the cable.

2. (currently amended): The antenna according to claim 1, wherein a first resonance is generated by electric current distributed on the first antenna element (7) and a second resonance is generated by electric current distributed on the second antenna element (9).

3. (currently amended): The antenna according to claim 1, wherein the ground conductor-(5), the first antenna element (7), and the second antenna element (9)-are disposed on one surface of the base member-(3).

4. (currently amended): The antenna according to claim 3, wherein a slit portion (6) opening at a part thereof is formed on the base member (3) by combining the ground conductor (5) and the first antenna element (7) and the second antenna element (9) is disposed in the slit portion (6).

5. (canceled).

6. (currently amended): The antenna according to claim 51, wherein a thin insulation layer (40) is covered over surfaces of the first antenna element (7)-except for the first connecting portion-(7C), the second antenna element (9) and the ground conductor (5) except for the second connecting portion (5B).

7. (currently amended): The antenna according to claim 51, wherein the cable (11), the first conductor (13), the second conductor (17)-and the dielectric member (18)-are a coaxial

cable, an inner conductor of the coaxial cable, an outer conductor of the coaxial cable and a sheath of the coaxial cable, respectively.

8. (currently amended): The antenna according to claim 7, wherein a film-like dielectric member is disposed between the contact portion (9A) and the sheath of the coaxial cable.

9. (currently amended): The antenna according to claim 1, wherein the base member (3) has flexibility.

10. (currently amended): The antenna according to claim 9, wherein the ground conductor (5), the first antenna element (7) and the second antenna element (9) have flexibilities.

11. (currently amended): The antenna according to claim 10, further comprising: a support member (33) made of non-conductor and fixedly securing the base member (3).

12. (currently amended): The antenna according to claim 11, wherein the support member (33) comprises: an upper end portion (35) extending to one direction; a lower end portion (39) disposed in parallel to the upper end portion (35); and an interconnecting portion (37) having one end vertically connected to one end (35B) of the upper end portion (35) and the other end vertically connected to one end (39B) of the lower end portion (39).

13. (currently amended): The antenna according to claim 1, wherein the base member (3) is mounted on an LCD section (20) of a notebook-sized PC (19).

14. (currently amended): The antenna according to claim 1, wherein the base member (3) is mounted on a corner area of a casing (21) of a notebook-sized PC (19).

15. (currently amended): The antenna according to claim 1, wherein the ground conductor (5), the first antenna element (7) and the second antenna element (9) are formed on the base member (3) by means of at least one of an etching technique and a screen printing technique.

16. (currently amended): An antenna comprising:
a thin plate-like base member (43) made of dielectric material;
a first antenna element (45) formed of a thin-film shaped conductor and disposed on the base member (43) so as to form a slit portion (46) opening at a part thereof, the first antenna element having a first radiating portion, a second radiating portion disposed so as to be opposed to the first radiating portion, and an interconnecting portion connected to one end of the first radiating portion and one end of the second radiating portion;

a second antenna element (47) formed of a thin-film and strip shaped conductor and disposed in the slit portion (46) without being electrically connected to the first antenna element;
and

an impedance adjustment element (49) formed of a thin-film and strip shaped conductor and disposed between the second radiating portion one side (45B) of the first antenna element

(45) and the second antenna element (47) in the slit portion (46) without being electrically connected to the first antenna element and the second antenna element;

a first connecting portion formed on the second radiating portion in order to electrically connect the second radiating portion of the first antenna element to a first conductor of a cable;

a first contact portion formed on the impedance adjustment element in order to contact the impedance adjustment element to the first conductor of the cable covered with a covering material;

a second connecting portion formed on the second antenna element in order to electrically connect the second antenna element to a second conductor of the cable ; and

a second contact portion formed on the first radiating portion in order to contact the first radiating portion of the first antenna element to the second conductor of the cable via a dielectric member.

17. (currently amended): The antenna according to claim 16, wherein a first resonance is generated by electric current distributed on the first antenna element (45), a second resonance is generated by electric current distributed on the second antenna element (47) and impedance is adjusted corresponding to a shape and arrangement location of the impedance adjustment element (49).

18. (currently amended): The antenna according to claim 16, wherein the first antenna element (45), the second antenna element (47) and the impedance adjustment element (49) are disposed on one surface of the base member (43).

19. (currently amended): The antenna according to claim 18, wherein the first antenna element ~~(45)~~ comprises: a first radiating portion ~~(45A)~~ formed in a strip shape; a second radiating portion ~~(45B)~~ formed in a strip shape and disposed in parallel to the first radiating portion ~~(45A)~~; and an interconnecting portion ~~(45C)~~ having one end vertically connected to one end ~~(45E)~~ of the first radiating portion ~~(45A)~~ and the other end vertically connected to one end ~~(45D)~~ of the second radiating portion ~~(45B)~~, the second antenna element ~~(47)~~ is disposed between the first radiating portion ~~(45A)~~ and the second radiating portion ~~(45B)~~ and in parallel to the first radiating portion ~~(45A)~~, and the impedance adjustment element ~~(49)~~ is disposed between the second radiating portion ~~(45B)~~ and the second antenna element ~~(47)~~ and in parallel to the second radiating portion ~~(45B)~~.

20. (currently amended): The antenna according to claim 19, wherein the first radiating portion ~~(45A)~~ is longer than the second antenna element ~~(47)~~ and the second antenna element ~~(47)~~ is longer than the second radiating portion ~~(45B)~~ and the impedance adjustment element ~~(49)~~.

21. (canceled).

22. (currently amended): The antenna according to claim ~~21~~16, wherein a thin insulation layer ~~(59)~~ is covered over surfaces of the first antenna element ~~(45)~~ except for the first

connecting portion ~~(51)~~, the second antenna element ~~(47)~~ except for the second connecting portion ~~(55)~~ and the impedance adjustment element ~~(49)~~.

23. (currently amended): The antenna according to claim ~~24~~16, wherein the cable ~~(11)~~, the first conductor ~~(13)~~ and the second conductor ~~(17)~~ are a coaxial cable, an inner conductor of the coaxial cable and an outer conductor of the coaxial cable, respectively.

24. (currently amended): The antenna according to claim 16, wherein the base member ~~(43)~~ has flexibility.

25. (currently amended): The antenna according to claim 24, wherein the first antenna element ~~(45)~~, the second antenna element ~~(47)~~ and the impedance adjustment element ~~(49)~~ have flexibilities.

26. (currently amended): The antenna according to claim ~~10~~25, further comprising: a support member ~~(33)~~ made of non-conductor and fixedly securing the base member ~~(43)~~.

27. (currently amended): The antenna according to claim 26, wherein the support member ~~(33)~~ comprises: an upper end portion ~~(35)~~ extending to one direction; a lower end portion ~~(39)~~ disposed in parallel to the upper end portion ~~(35)~~; and an interconnecting portion ~~(37)~~ having one end vertically connected to one end ~~(35B)~~ of the upper end portion ~~(35)~~ and the other end vertically connected to one end ~~(39B)~~ of the lower end portion ~~(39)~~.

28. (currently amended): The antenna according to claim 16, wherein the base member (43) is mounted on an LCD section (20) of a notebook-sized PC (19).

29. (currently amended): The antenna according to claim 16, wherein the base member (43) is mounted on a corner area of a casing (21) of a notebook-sized PC (19).

30. (currently amended): The antenna according to claim 16, wherein the first antenna element (45), the second antenna element (47) and the impedance adjustment element (49) are formed on the base member by means of at least one of an etching technique and a screen printing technique.

31. (currently amended): An antenna comprising:
a thin plate-like base member (43) made of dielectric material;
a first antenna element (45) formed of a thin-film shaped conductor and disposed on the base member (43) so as to form a slit portion (46) opening at a part thereof, the first antenna element having a first radiating portion, a second radiating portion disposed so as to be opposed to the first radiating portion, and an interconnecting portion connected to one end of the first radiating portion and one end of the second radiating portion; and
a second antenna element (47) formed of a thin-film and strip shaped conductor and disposed in the slit portion (46) without being electrically connected to the first antenna element;

a first connecting portion formed on the second radiating portion in order to electrically connect the second radiating portion of the first antenna element to a first conductor of a cable;
a second connecting portion formed on the second antenna element in order to electrically connect the second antenna element to a second conductor of the cable; and
a contact portion formed on the first radiating portion in order to contact the first radiating portion of the first antenna element to the second conductor of the cable via a dielectric member.

32. (currently amended): The antenna according to claim 31, further comprising: a first rear surface antenna element ~~(89)~~ formed of a thin-film shaped conductor and disposed on the other surface of the base member ~~(83)~~ so as to form a rear surface slit portion opening at a part thereof; and a second rear surface antenna element ~~(91)~~ formed of a thin-film and strip shaped conductor, disposed in the rear surface slit portion and electrically connected to the second antenna element ~~(47, 87)~~.

33. (currently amended): The antenna according to claim 32, wherein the first rear surface antenna element ~~(89)~~ comprises: a first rear surface radiating portion formed in a slip-shape; a second rear surface radiating portion formed in a slip-shape and disposed in parallel to the first rear surface radiating portion; and a rear surface interconnecting portion connecting one end of the first rear surface radiating portion and one end of the second rear surface radiating portion, and the second rear surface antenna element ~~(91)~~ is disposed between the first rear

surface radiating portion and the second rear surface radiating portion and in parallel to the first rear surface radiating portion.

34. (currently amended): The antenna according to claim 1, further comprising:
a support member ~~(33)~~ having rigidity and fixedly securing the base member ~~(3)~~.

35. (currently amended): The antenna according to claim 34, wherein the base member ~~(3)~~ is integrally formed with the support member ~~(33)~~.

36. (currently amended): The antenna according to claim ~~5~~1, wherein set positions of the first connecting portion ~~(7C)~~, the second connecting portion ~~(5B)~~ and the contact portion ~~(9A)~~ are independently arranged one another.

37. (currently amended): The antenna according to claim 16, further comprising:
a support member ~~(33)~~ having rigidity and fixedly securing the base member ~~(3)~~.

38. (currently amended): The antenna according to claim 37, wherein the base member ~~(3)~~ is integrally formed with the support member ~~(33)~~.

39. (currently amended): The antenna according to claim ~~21~~16, wherein set positions of the first connecting portion ~~(51)~~, the second connecting portion ~~(55)~~, the first contact portion ~~(53)~~ and the second contact portion ~~(57)~~ are independently arranged one another.